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L4	4413	713/201	USPAT	OR	OFF	2006/02/15 14:56
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L9	222	8 and access	USPAT	OR	OFF	2006/02/15 14:58
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Relevance scale

1 Proposed NIST standard for role-based access control

David F. Ferraiolo, Ravi Sandhu, Serban Gavrila, D. Richard Kuhn, Ramaswamy Chandramouli

 August 2001 **ACM Transactions on Information and System Security (TISSEC)**, Volume 4 Issue 3
Publisher: ACM PressFull text available: [pdf\(417.90 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index term](#)

In this article we propose a standard for role-based access control (RBAC). Although RBAC models have received broad support as a generalized approach to access control, and are well recognized for their many advantages in performing large-scale authorization management, no single authoritative definition of RBAC exists today. This lack of a widely accepted model results in uncertainty and confusion about RBAC's utility and meaning. The standard proposed here seeks to resolve this situation by ...

Keywords: Role-based access control, access control, authorization management, security, standardization

2 Content-dependent access control

Jonathan D. Moffett, Morris S. Sloman

 April 1991 **ACM SIGOPS Operating Systems Review**, Volume 25 Issue 2
Publisher: ACM PressFull text available: [pdf\(508.06 KB\)](#)Additional Information: [full citation](#), [abstract](#), [index terms](#)

Content-dependent access control, where the access decisions depend upon the value of an attribute of the object itself, is required in many applications. However problems arise in an object-based environment, because obtaining the value of an object's attribute requires an operation upon the object. We discuss the conceptual and performance implications of introducing content-dependent access control, and suggest how the problems can be avoided in some cases by using a domain approach to ...

3 The model, language, and implementation of an object-oriented multimedia knowledge base management system

Hiroshi Ishikawa, Fumio Suzuki, Fumihiko Kozakura, Akifumi Makinouchi, Mika Miyagishima, Yoshio Izumida, Masaaki Aoshima, Yasuo Yamane

 March 1993 **ACM Transactions on Database Systems (TODS)**, Volume 18 Issue 1
Publisher: ACM PressFull text available: [pdf\(3.23 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index term](#)

New applications such as CAD, AI, and hypermedia require direct representation and flexible use of complex objects, behavioral knowledge, and multimedia data. To this end, we have devised a knowledge base management system called Jasmine. An object-oriented approach in a programming language also seems promising for use in Jasmine. Jasmine extends the current object-oriented approach and provides the following features. Our object model is based on functional data models well-established ...

4 A security model for military message systems

 Carl E. Landwehr, Constance L. Heitmeyer, John McLean

August 1984 **ACM Transactions on Computer Systems (TOCS)**, Volume 2 Issue 3

Publisher: ACM Press

Full text available:  pdf(1.76 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: confinement, message systems, storage channels

5 Exception-based information flow control in object-oriented systems

 Elisa Bertino, Sabrina De Capitani Di Vimercati, Elena Ferrari, Pierangela Samarati

November 1998 **ACM Transactions on Information and System Security (TISSEC)**, Volume 1 Issue 1

Publisher: ACM Press

Full text available:  pdf(457.22 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index term](#)

We present an approach to control information flow in object-oriented systems. The decision of whether an information flow is permitted or denied depends on both the authorizations specified by objects and the process by which information is obtained and transmitted. Depending on the specific computations, a process accessing sensitive information could still be allowed to release information to users who are not allowed to directly access it. Exceptions to the permissions and restrictions ...

Keywords: access control, confidentiality, information flow control, object-oriented databases : systems

6 Special section: Special issue on AI and Database research

 Jonathan J. King

October 1983 **ACM SIGART Bulletin**, Issue 86

Publisher: ACM Press

Full text available:  pdf(3.84 MB)

Additional Information: [full citation](#), [abstract](#)

This collection of research summaries spans a very wide range of interests under the general heading of AI and Database research. In this introduction, I briefly describe the leading areas of interest that emerge from the reports submitted for this issue.

7 Guidance for the use of the Ada programming language in high integrity systems

 B. A. Wichmann

July 1998 **ACM SIGAda Ada Letters**, Volume XVIII Issue 4

Publisher: ACM Press

Full text available:  pdf(2.93 MB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This paper is the current result of a study by the ISO HRG Rapporteur group which is being circulated for comment. Many people have contributed to this, but those who have either attended two recent meetings of group or have made substantial e-mail comments are: Praful V Bhansali (Boeing, USA), Alan Burns (University of York, UK), Bernard Carre' (Praxis Critical Systems, UK), Dan Craigen (Canada), Nick Johnson MoD, UK), Stephen Michell (Canada), Gilles Motet (DGEI/INSA, France), Roma ...

8 Disconnected processes, mechanisms and architecture for mobile e-business

J. Sairamesh, S. Goh, I. Stanoi, S. Padmanabhan, C. S. Li

December 2004 **Mobile Networks and Applications**, Volume 9 Issue 6

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(625.38 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

With the tremendous advances in hand-held computing and communication capabilities, rapid proliferation of mobile devices, and decreasing device costs, we are seeing a growth in mobile e business in various consumer and business markets. In this paper, we present a novel architect framework for end-to-end mobile e-business applications (e.g., point of sales). The architecture into consideration disconnection, application context, synchronization, transactions and failure recovery ...

Keywords: failure recovery, mobile commerce, mobile disconnection, mobile e-business, remote disconnection, seamless business transaction

9 Re-evaluating indexing schemes for nested objects

 Yin-he Jiang, Xiangning Liu, Bharat Bhargava

November 1994 **Proceedings of the third international conference on Information and know management**

Publisher: ACM Press

Full text available:  [pdf\(741.19 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Performance is a major issue in the acceptance of object-oriented database management system (OODBMS). The nested index and path index schemes have been criticized for their heavy costs poor handling of update operations. This paper re-evaluates three index schemes (nested index index, and multi-index) applicable to queries on nested attributes. Among these, we found that multi-index scheme is best supported in the object-oriented or extended relational DBMS environment. Multi- ...

10 Performance: Cooperative leases: scalable consistency maintenance in content distribution networks

 Anoop Ninan, Purushottam Kulkarni, Prashant Shenoy, Krithi Ramamritham, Renu Tewari

May 2002 **Proceedings of the 11th international conference on World Wide Web**

Publisher: ACM Press

Full text available:  [pdf\(201.14 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index term](#)

In this paper, we argue that cache consistency mechanisms designed for stand-alone proxies do not scale to the large number of proxies in a content distribution network and are not flexible enough to allow consistency guarantees to be tailored to object needs. To meet the twin challenges of scalability and flexibility, we introduce the notion of cooperative consistency along with a mechanism, called *cooperative leases*, to achieve it. By supporting Δ -consistency semantics and by using ...

Keywords: content distribution networks, data consistency, data dissemination, dynamic data, pull/push, scalability, world wide web

11 The design of an object-oriented collaborative spreadsheet with version control and history management

 David A. Fuller, Sergio T. Mujica, José A. Pino

March 1993 **Proceedings of the 1993 ACM/SIGAPP symposium on Applied computing: state of the art and practice**

Publisher: ACM Press

Full text available:  [pdf\(811.82 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)